

Title (en)  
Device with MOSFET on SOI

Title (de)  
SOI-MOSFET Vorrichtung

Title (fr)  
Dispositif à MOSFET sur SOI

Publication  
**EP 1947686 B1 20190619 (FR)**

Application  
**EP 08100640 A 20080118**

Priority  
FR 0752776 A 20070119

Abstract (en)  
[origin: EP1947686A2] The device (1) has an upper region (102) including a MOSFET type semiconductor device i.e. P-channel MOS transistor (106), with a metallic gate (108) and arranged on a semiconductor layer (118). A lower region (104) has a MOSFET type semiconductor device i.e. N-channel MOS transistor (134), arranged on a portion (132b) of another semiconductor layer, where the layers are made of strained silicon. The transistor (134) has a gate (128b) formed by a portion of a metallic layer. The latter semiconductor layer is arranged on an insulating layer (146) stacked on another metallic layer (148). An independent claim is also included for a method of manufacturing a silicon-on-insulator MOSFET device.

IPC 8 full level  
**H01L 21/336** (2006.01); **H01L 21/8238** (2006.01); **H01L 21/84** (2006.01); **H01L 27/12** (2006.01); **H01L 29/786** (2006.01)

CPC (source: EP US)  
**H01L 21/84** (2013.01 - EP US); **H01L 27/1203** (2013.01 - EP US); **H01L 27/1207** (2013.01 - EP US); **H01L 29/78648** (2013.01 - EP US); **H01L 21/823807** (2013.01 - EP US); **H01L 21/823878** (2013.01 - EP US)

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